

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON D.C. 20460

April 7, 2006

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Mark Lackner General Manager Biosolutions LLC 1835 Industrial Park Drive Grand Haven, MI 49417

Dear Mr. Lackner:

The U.S. Environmental Protection Agency applauds Biosolutions LLC ("Biosolutions") for your leadership in developing an environmentally oriented set of industrial and institutional cleaning products. EPA's Design for the Environment ("DfE") program seeks to promote the use of products with improved environmental and human health characteristics. The Clean & Green line of products in our partnership—Neutral General Purpose Cleaner, Super D Degreaser, Neutral Window & Glass Cleaner, Neutral Parts Cleaner, Neutral Granite Cleaner, Neutral Tile & Grout Cleaner, Neutral Carpet Cleaner, and Neutral Super Concentrate—fully achieve that objective in the industrial & institutional cleaning/maintenance sectors.

The key purpose of the DfE-Biosolutions partnership is to recognize and encourage the environmentally preferable chemistry of the partnership products. DfE is very enthusiastic about your successful formulation of these products and about our partnership. By eliminating hazardous solvents and environmentally persistent surfactants, you have demonstrated active environmental stewardship and dedication to continuous improvement.

Industrial, Service and Maintenance companies that use your recognized products will be participants in this important national effort to protect the environment and safeguard human health. I commend Biosolutions for your commitment to improving the environmental profile and performance of your products—and for leading change in the cleaning industry. DfE looks forward to building this partnership and wishes you much success with the partnership products.

U.S. EPA

Sincerely,

Clive Davies, Chief

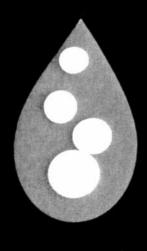
Design for the Environment

safe

versatile

biodegradable

effective











## **bio**sôlutions

1811 Hayes St. Suite E Grand Haven, MI 49417 616.846.1210 phone 616.846.1254 fax www.biosolutionsllc.com

# BIOSAFE CONCENTRATE Disinfectant - Cleaner - Sanitizer

## PRODUCT CHARACTERISTICS

**EPA** registered

Excellent cleaning power

No residue

Cuts grease and slime

Deodorizes

Eliminates all types of viruses, bacteria, fungi, and mold

#### RECOMMENDED USES:

Hospitals, nursing homes, medical and dental offices and clinics, house-keeping & janitorial rooms, public restrooms, shower rooms, institutions, schools and colleges, churches, athletic facilities and locker rooms, excercise facilities, supermarkets, retail and wholesale establishments, dressing rooms and laundries, playgrounds, recreational facilities, picnic tables and outdoor furniture, drinking fountains.

Minimum dillution 2 oz. per gallon.

#### PACKAGING OPTIONS:

1 gallon container (4 per case)

#### **BENEFITS:**

Excellent cleaning power

**Broad Spectrum disinfectant** 

Kills 99.999% of germs

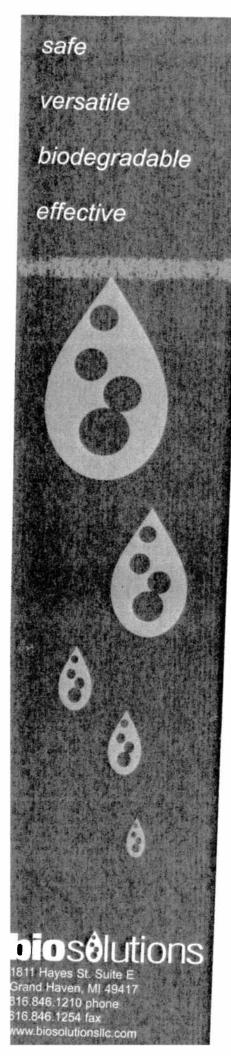


May be used to comply with OSHA'S Hazard Communication Standard

IDENTITY (As used on label and list) BIOSAFE Concentrate - Disinfectant Cleaner Sanitizer SECTION I Manufacturer's Name Biosolutions, LLC Emergency Telephone Number 1811 Haves St. Suite E 616-844-6393 Grand Haven, Mi Information Number 49417 616-846-1210 SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION Hazardous Components - None Specific Chemical Identity - N/A CAS# WT. % Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1 1- 3 Octyl decyl dimethyl ammonium chloride 32426-11-2 1 1- 3 Dioctyl dimethyl ammonium chloride 5538-94-3 0.5-1.5 Didecyl dimethyl ammonium chloride 7173-51-5 0.5-5 Ethanol <1% CERTIFICATION THIS IS TO CERTIFY THAT NONE OF THE TOXIC ORGANICS LISTED IN THE FEDERAL REGULATIONS TITLE 40, SECTIONS 413.2 THRU 414.14 ARE USED IN THE MANUFACTURING OF BIOSOLUTIONS AND THEREFORE ARE NOT COMPONENTS OF BIOSAFE HMIS Rating: HEALTH - 2 FIRE - 0 REACTIVITY - 0 PERSONAL PROTECTION - A SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS Boiling Point --- 98.4 C Vapor Pressure (mm Hg.) -- 7.0 Vapor Density (AIR = 1) -- 0.62 Solubility in Water - Complete Appearance and odor ----- Colorless - Mild Odor -- 11 to 12 Specific Gravity (H20 = 1) ---Melting Point -Evaporation Rate (Butyl Acetate = 1) ----SECTION IV - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) -----Flammable Limits -----None LEL -N/A UEL --N/A Extinguishing Media -Dry chemical, foam, carbon dioxide or water fog Special Fire Fighting Procedures --None Required Usual Fire and Explosion Hazards ---None SECTION V - REACTIVITY DATA Stability Stable Compatibility (materials to avoid) -Strongly Acidic Materials & Oxidizers Hazardous Polymerization --Will Not Occur Conditions To Avoid SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION Routes of Entry: Inhalation: No Skin: Ingestion: No Health Hazards (Acute and Chronic): This product poses no health hazards, but, as with all products, prudence in handling is recommended. Carcinogenicity --- NONE NTP -N/A IARC Monographs -N/A OSHA Regulated: Signs and Symptoms of Exposure: None Medical Conditions Generally Aggravated by Exposure: None None; care in handling is recommended Emergency and First Aid Procedures: SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. Slippery. Waste Disposal Method: Standard sewage treatment methods. Precautions to be taken in handling and storing: None Other Precautions: Avoid freezing. If freezing occurs, thaw and stir. SECTION VIII - CONTROL MEASURES Respiratory Protection (Specific Type): None required Ventilation: Local Exhaust - None required Mechanical (General) - Acceptable Special - None Other - None Protective Gloves: Not necessary Eye Protection: Not required; prudent handling recommended Other Protective Clothing or Equipment: None Work/Hygienic Practices: Normal practices.

#### DISCLAIMER OF WARRANTY:

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of seller's knowledge. However, seller makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use of thereof. Seller assumes no responsibility for injury to buyer or third party or any damage to property. Buyer assumes all such risks.



# BIOSOLVE

Ready-to-use Graffiti, Paint and Adhesive Remover

## PRODUCT CHARACTERISTICS

Soy Based

Biodegradable

Little to No Residues

Low VOC's

Pleasant Fragrance

Cuts through:

Paint, Inks, Dyes, Adhesives and Polymers with little to no agitation

#### BENEFITS:

Unlike other graffiti/paint removers, BioSolve contains very little VOC's which are known to contribute to low ozone smog and global warming.

No highly toxic (like Xylene and Toluene) or chlorinated solvents.

#### PACKAGING OPTIONS:

32 oz quarts (12/case) 4 / 1 gallon bottles 5 gallon pails 55 Gallon drum



#### IDENTITY (As used on label and list)

BioSolve - Ready-to-use Graffiti, Paint, and Adhesive Remover

#### SECTION I

Manufacturer's Name Biosolutions, LLC

Emergency Telephone Number 616-844-3471

1811-E Hayes Street Grand Haven, MI 49417

616-844-3471 Information Number 616-846-1210

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENT	% WEIGHT	CAS#
Methyl ester, soybean oil	<3	67784809
2-Propanone	>35	67-64-1
Proprietary	balance	N/A
HMIS Rating Health-1	Fire-2 Reactivity	-0

#### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	93.4 C
Vapor Pressure (mm Hg.)	17.0
Vapor Density (AIR = 1)	.831
Solubility in Water	<30%
A	Vallende

Appearance and odor ----- Yellow/Clear -mild odor

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	> 15 °C
VOC	< 5 %
Usual Fire and Explosion Hazards	Flammable

#### Fire Fighting Equipment / Instructions

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

#### SECTION V - REACTIVITY DATA

Stability	Stable
Compatibility (materials to avoid)	None
Hazardous Polymerization	Will Not Occur
Conditions To Avoid	Flame

#### SECTION VI - EXPOSURE CONTROLS/HAZARDS INFORMATION

Routes of Entry:

Inhalation: Yes

Skin: Yes Ingestion: Yes

Not shown as a carcinogen by OSHA, IARC, or NTP

Hazards Information: Eyes - This product may cause eye irritation upon contact.

Skin - This product may case mild skin irritation upon direct contact Inhalation - Inhalation hazard is minimum under normal conditions

Ingestion - Ingestion of this product may cause gastrointestinal irritation, nausea

First Aid Procedures: Eyes - Hold eyelid open; flush with large volume of water; continue for 15 minutes. If irritation develops, seek medical attention.

Skin - Wash area with mild soap and water. If irritation develops, seek medical attention.

Inhalation - Remove to fresh air. If irritation develops, seek medical attention.

Ingestion - If ingested DO NOT induce vomiting; dilute with milk and seek medical attention.

Never give anything by mouth to an unconscious person.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: wear suitable clothing, gloves, and eye protection.

Absorb large spills with floor dry material. Small spills, flush with water and pick up.

Waste disposal methods: because product uses, mixtures, processes or contamination may render this product hazardous, it is the responsibility of the owner/user to determine at the time of disposal if the product meets RCRA criteria for hazardous waste. Disposal must concur with local, state, and federal regulations.

Precautions to be taken in handling and storage: Avoid flame and oxidizers.

Other precautions: Avoid freezing. If freezing occurs, thaw and stir.

#### SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specific Type): None required

Ventilation: Local exhaust, adequate ventilation

Protective gloves: Yes

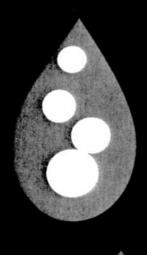
Eye protection: Yes

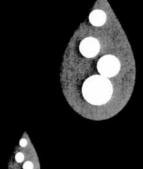
Other protective clothing or equipment: None

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safe versatile biodegradable effective









Grand Haven, MI 49417 616.846.1210 phone 616.846.1254 fax www.biosolutionsllc.com

# **BIO-SLR**

READY-TO-USE Scale, Lime and Rust Remover

## PRODUCT CHARACTERISTICS

Biodergradable

No phosphates

No harmful solvents

No caustic soda

No dyes

No fragrances

Non-corrosive to metals, plastics and clothing

RECOMMENDED USES:

Heavy duty cleaning

Machine cleaning

Fixture cleaning

Lime

**BUBBLES AWAY** 

Rust

Scale

PACKAGING OPTIONS:

32 oz. trigger sprayer (12/case)

1 gallon container (4/case)

5 gallon container

FROM HARD SURFACES

Plastic

Metal

Tile

BENEFITS:

Excellent cleaning power

Easy to use

Safe for people

Environmentally friendly

No strong odor



Material Safety Data Sheet

March 12, 2007

May be used to comply with OSHA'S Hazard Communication Standard

IDENTITY (As used on label and list)

BIO-SLR - Scale, Lime and Rust Remover

SECTION I

Manufacturer's Name

Biosolutions, LLC **Emergency Telephone Number** 

616-846-1210 1811 Hayes St. Suite E Grand Haven, MI Information Number 49417 616-846-1210

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components - None

Specific Chemical Identity - N/A

CERTIFICATION

THIS IS TO CERTIFY THAT NONE OF THE TOXIC ORGANICS LISTED IN THE FEDERAL REGULATIONS TITLE 40, SECTIONS 413.2 THRU 414.14 ARE USED IN THE MANUFACTURING

OF BIOSOLUTIONS AND THEREFORE ARE NOT COMPONENTS OF BIO-SLR.

HMIS Rating: HEALTH - 1 FIRE - 0 REACTIVITY - 0 PERSONAL PROTECTION - A

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Vapor Pressure (mm Hg.) 98.4 C Vapor Density (AIR = 1) -----Solubility in Water -------- Complete

Appearance and odor ---------- Green - Mild Pleasant Odor --- 2.3 to 3

Specific Gravity (H20 = 1) ------ 1.02 Melting Point ---Evaporation Rate (Butyl Acetate = 1) ----- 0.7

SECTION IV - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) None Flammable Limits ------ None LEL -- N/A UEL. - N/A

Extinguishing Media -------- None Required Special Fire Fighting Procedures --- None Required

Usual Fire and Explosion Hazards ----

SECTION V - REACTIVITY DATA

Stability Compatibility (materials to avoid) ----Hazardous Polymerization ---- Will Not Occur Conditions To Avoid -

SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

Routes of Entry:

Inhalation: May Cause Minor Irritation

Skin: Nο Ingestion: No

Health Hazards (Acute and Chronic): This product poses no health hazards, but, as with all products, prudence in handling is recommended.

Carcinogenicity ------- NONE ----- N/A IARC Monographs -------- N/A

OSHA Regulated: No

Signs and Symptoms of Exposure: None

Medical Conditions Generally Aggravated by Exposure: None

Emergency and First Ald Procedures: None; care in handling is recommended

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. Slippery.

Waste Disposal Method: Standard sewage treatment methods.

Precautions to be taken in handling and storing: None

Other Precautions: Avoid freezing. If freezing occurs, thaw and stir.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specific Type): None required

Ventilation:

Local Exhaust - None required Mechanical (General) - Acceptable

Special - None Other - None

Protective Gloves: Not necessary

Eye Protection: None required; Prudent handling Other Protective Clothing or Equipment: None Work/Hygienic Practices: Normal practices.

DISCLAIMER OF WARRANTY:

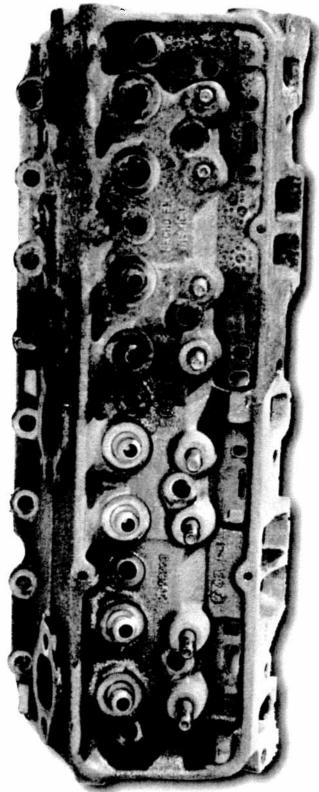
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## **bio**sélutions

# EVAPORUST

Keep it Clean...and looking new with Biosolutions EVAPORUST™



Biosolutions' **EVAPO-RUST**<sup>TM</sup> is a two-time award winning technology that removes rust without any scrubbing, harsh acids or harmful effects to the environment! Winner of an R&D 100 award for Cleaning Technology, and listed among the Top 100 Inventions for Outstanding Technology in Industrial Cleaning, this product is amazingly green-friendly. Free of damaging VOCs, solvents, acids and bases, **Evapo-Rust**<sup>TM</sup> is non-corrosive, non-toxic, non-flammable, biodegradable and sewerable.

Evapo-Rust™ easily cuts through tough rust to help metal look brand new again. Light rust is removed in as little as 5 minutes and Evapo-Rust™ blasts through extremely heavily rusted parts overnight. Simply rinse and re-dip the parts for up to two weeks of extended rust inhibition. It is non-corrosive to steel and does not harm brass, copper, aluminum, gold, lead, titanium, steel, cast iron, solder points, vinyl, plastic, rubber, silicone, glass, cork or wood.

#### Instructions:

Pre-clean item if covered in heavy oil and dirt. Rinse item and immerse fully in **Evapo-Rust**<sup>TM</sup> for 20 minutes. Check progress periodically. Once rust is removed, rinse item with water. To prevent re-rusting, simply re-dip into **Evapo-Rust**<sup>TM</sup> solution and allow to dry. Deeply rusted parts (5mm or deeper) may require overnight soaking. It's as simple as that.

**Evapo-Rust™** can be re-used application after application until performance drops off. When ready to dispose of spent **Evapo-Rust™**, only the iron content of the solution will dictate disposal method. In most cases, it can be safely put down the drain.

Note: Tool alloy steel and other high carbon steels will have a slightly darker finish after de-rusting with Evapo-Rust $^{\text{TM}}$ 

Caution: Rusty items with edges may become sharp once de-rusted. Handle with caution.

So go ahead and keep it clean...with Biosolutions' Evapo-Rust $^{\text{TM}}$ .

1835 Industrial Park Drive Grand Haven, MI 49417 616.846.1210 www.biosolutionsllc.com

**bio**sélutions

May 20, 2003

May be used to comply with OSHA'S Hazard Communication Standard

IDENTITY (As used on label and list)

#### Evapo-Rust

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Distributor's Name

----- Emergency Telephone Number Biosolutions, LLC -----

1835 Industrial Park Drive -------616-844-3471

Grand Haven, MI ----- Information Number

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

As outlined in CFR Title 30, Part 47, SUbpart H, the precise composition of this mixture is proprietary information. All substances in this product are listed on the US TSCA inventory

are otherwise exempt.

HMIS RATING - HEALTH - 1, FIRE - 0. REACTIVITY - 0, PERSONAL PROTECTION - A

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Vapor Pressure (mm Hg.) -----N/A mm Hg

Vapor Density (AIR = 1) ------N/A air=1

Solubility in Water ------Complete

Specific Gravity (H20 = 1) ------ 1.02

Melting Point ----- N/A

Evaporation Rate (Butyl Acetate = 1) ------<1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) -----None

Flammable Limits -----None

UEL ------N/A

Extinguishing Media -----None required

Special Fire Fighting Procedures -----None required

Usual Fire and Explosion Hazards ----- None

SECTION V - REACTIVITY DATA

Stability -----Normally Stable

Compatibility (materials to avoid) ------ Avoid contact with strong oxidizing agents or other reactive materials

Hazardous Decomposition Products ------Oxides of Carbon

#### SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

Routes of Entry: Inhalation: Yes

#### POTENTIAL HEALTH EFFECTS

Eye: May cause slight (temporary) eye irritation

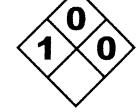
Skin: Prolonged exposure not likely to cause significant skin irritation

Ingestion: Single dose oral toxicity is considered to be extremely low

Inhalation: Excessive exposure may cause irritation to upper respiratory tract.

Carcinogenicity ----- None IARC Monographs ----- N/A OSHA Regulated ------Yes

Signs and Symptoms of Exposure -----None



#### **EMERGENCY AND FIRST AID PROCEDURES**

Eve: Flush eves with plenty of water

Skin: Wash off in flowing water or shower

Ingestion: If swallowed, drink two glasses of water and induce vomiting by using specac syrup or placing two fingers at the back of the throat. Get immediate medical attention. Do no

give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Dike area and pump spilled material into metal containers for disposal or reclaiming.

Waste Disposal Method: Disposal must concur with local, state and federal regulations.

Precautions to be taken in handling and storage: None

Other Precautions: Store in tightly sealed containers in a cool, dry place

#### SECTION VIII CONTROL MEASURES

Respiratory Protection (specific type): None required

Ventilation: Local Exhaust - None required

Mechanical (General) - Acceptable

Special - None

Other - None

Protective Gloves: Recommended

Eye Protection: Protective eyewear recommended Other Protective Clothing or Equipment: None Work/Hygienic Practices: Normal practices

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Formulated In Partnership with U.S. Environmental Protection Agency.



TM

### SUPER CONCENTRATE CLEANER

Conventional cleaning formulations, especially those for industrial and institutional use, often rely on ingredients whose environmental and human health profiles can be improved. Highly alkaline chemistry is corrosive; common solvents can be absorbed through the skin with potential effects on the liver, kidneys, lymph and blood systems and certain terpenes present both human health and environmental concerns, especially for their potential toxicity to aquatic organisms.

Super Concentrate Cleaner has been formulated in partnership with the U.S. Environmental Protection Agency to provide a safer more environmentally preferable alternative without sacrificing performance. This highly concentrated, versatile cleaner is formulated to take on a wide range of cleaning jobs. It is able to quickly power off even stubborn soils and greases from any surface not harmed by water. Dilute it for use in a pail with a sponge, in spray bottles, in mop buckets, floor scrubbers or pressure washers.

Economic benefits are realized as well. Clean & Green pre-measured two ounce, five ounce and fifteen ounce packets deliver the proper dilution whether used in a mop bucket, auto scrubber or ride-on. Reduce waste and save money.

1.9

Increased productivity.

Reduced freight, inventory and handling costs.

Less storage space required.

Elimination of drum pumps and portion control devices.

Provides standardization and uniform results.

Hard floors (all types)
General cleaning and degreasing
Mop buckets
Walk behind scrubbers
Riding floor scrubbers

2 ounce, 100 per case, product # 601002 5 ounce, 96 per case, product # 609605 15 ounce, 20 per case, product # 602015 5 Gallon Pails, product # 601005 55 Gallon Drums, product # 601055

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1811 Hayes Street Suite E Grand Haven, MI 49417 616.846.1210 phone 616.846.1254 fax www.biosolutionsllc.com Material Safety Data Sheet April 2006 May be used to comply with OSHA'S Hazard Communication Standard

#### IDENTITY (As used on label and list)

Clean & Green™ Super Concentrate Cleaner

#### SECTION I

Manufacturer's Name **Biosolutions** 1811 E. Hayes Suite E Grand Haven, MI 49417

**Emergency Telephone Number** 

616.846.1210 Information Number 616.846.1210

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS Registry # - Proprietary

#### REGULATORY INFORMATION:

United States SARA TITLE III (SUPERFUND AMENDMENTS AND **REAUTHORIZATION ACT)** 

311/312 Hazard Categories:

Under the provisions of Title III, Sections 311/312 of Superfund Amendments and Reauthorizations Act (SARA) this product is classified into the hazards listed below:

Fire: No.

Pressure Generating: No

Reactivity: No

SARA 313 Reportable Ingredients: This product contains no ingredients reportable under Section 313.

HMIS RATING: Health: 1

Fire: 0 Reactivity: 0

#### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

**Boiling Point** -98.4 C Vapor Pressure (mm Hg.) -<.10 mmHg at 100° F **Physical State** Liquid Solubility in Water Complete Clear, mild odor Appearance and odor 7.2 - 7.4 Specific Gravity (H20 = 1) - 1.005 **Melting Point** - N/A Evaporation Rate (Butyl Acetate = 1) -0.8

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) -->210° Menskev Marten CC Flammable Limits --N/A LEL N/A UFL N/A Special Fire Fighting Procedures - N/A

Materials/Coatings Sultable - stainless steel, epoxy resins, polyester

#### SECTION V - REACTIVITY DATA

Stable Compatibility (materials to avoid) Strongly Acidic Materials & Oxidizers Hazardous Polymerization -No Conditions To Avoid None

#### SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

Routes of Entry: Inhalation: Yes Skin:

Yes Ingestion: Yes

#### POTENTIAL HEALTH EFFECTS

Eye: May cause slight (temporary) eye irritation

Skin: Prolonged exposure not likely to cause significant skin irritation inhalation: Excessive exposure may cause irritation to upper respiratory tract. Ingestion: Single dose oral toxicity is considered to be extremely low

#### **Emergency and First Ald Procedures:**

Eye: flush eyes with plenty of water. Skin: Wash off in flowing water or shower.

Inhalation: Remove to fresh air.

ingestion: If swallowed, seek medical attention. Do not induce vomiting

unless directed to do so by medical personnel.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. May be slippery.

Waste Disposal Method: Disposal must concur with local, state, and federal regulations.

Precautions to be taken in handling and storing: None Other Precautions: Avoid freezing. If freezing occurs, thaw.

#### **SECTION VIII - CONTROL MEASURES**

Respiratory Protection (Specific Type): None required Ventilation:

> Local Exhaust: Adequate ventilation Mechanical (General) - Acceptable

Special - None Other - None

Protective Gloves: Recommended

Eye Protection: Protective eyewear recommended. Other Protective Clothing or Equipment: None Work/Hygienic Practices: Normal practices.

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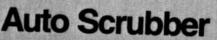


# Super Cleaning Concentrate

## Mixing Instructions for Floor Soap

## Mop Bucket

Fill mop bucket with 2-3 gallons of water. Add contents of one 2 ounce packet. Mix soap and water with mop.



Fill clean-water tank. Add contents of 5 ounce packet.

- 1 packet for light soil
- 2 packets for medium soil
- 3 packets for heavy soil

## Ride On Scrubber

Fill clean-water tank. Add contents of 15 ounce packet at the rate of 1 per 25 gallons of water.













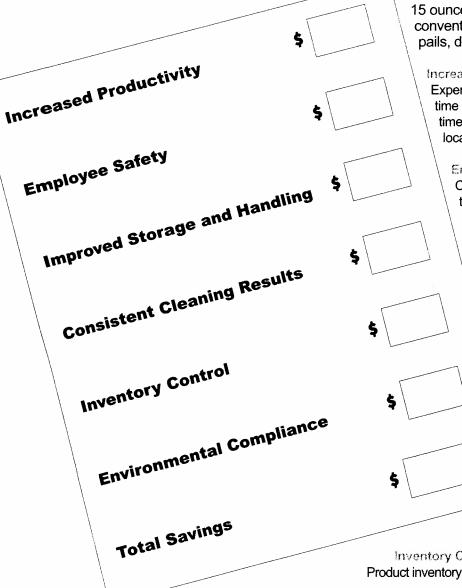


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biosélutions

## What are These Benefits worth to you?



Clean & Green Super Concentrate cleaning formulation, packaged in 2 ounce, 5 ounce and 15 ounce packets, has significant benefits over conventional cleaners purchased in gallons, pails, drums or totes.

#### Increased Productivity

Experts estimate that 35% of housekeeping labor time is unproductive. Part of that unproductive time is spent going to and from a central soap location when changing mop water.

#### **Employee Safety**

Clean and Green Super Concentrate is safer to use than conventional cleaners. It does not contain Butoxyethanol (a suspected carcinogen); citrus Solvents (flammable in concentrated form); or any caustic ingredients (severe eye and skin irritants).

> Improved Storage and Handling When compared to conventional containers, polyethylene packets reduce storage space by as much as 85%. Distribution within the facility is simplified; totes (2,500 lbs.), drums (500 lbs.) and pails (45lbs.) are replaced with 2 ounce and 15 ounce packets.

> > Consistent Cleaning Results Pre-measured packets promote accurate and consistent results. Over-usage is wasteful and may

dull or damage floors or other surface.

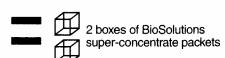
#### **Inventory Control**

Product inventory and usage are easily tracked.

#### **Environmental Compliance**

Designed in partnership with the EPA. Packets represent a 94% reduction in packaging material when compared to a 55-gallon drum.





**bio**sélutions





## READY-TO-USE SUPER D DEGREASER

Conventional cleaning formulations, especially those for industrial and institutional use, often rely on ingredients whose environmental and human health profiles can be improved. Highly alkaline chemistry is corrosive; common solvents can be absorbed through the skin with potential effects on the liver, kidneys, lymph and blood systems and certain terpenes present both human health and environmental concerns, especially for their potential toxicity to aquatic organisms.

Clean & Green- Ready-to-Use Super D Degreaser has been formulated in partnership with the U.S. Environmental Protection Agency to provide a safer more environmentally preferable alternative without sacrificing performance. This ready-to-use spray and wipe cleaner and degreaser packs the punch you need to tackle the most demanding jobs and loosens soil on contact for quick, easy removal.

#### BENEFITS:

Excellent cleaning power
Easily used
People SAFE
Environment SAFE
Non-corrosive to equipment

#### RECOMMENDED USES:

Degreasing
Heavy duty cleaning
Machine cleaning
Fixture cleaning

#### PACKAGING OPTIONS:

Quarts, 12 per case, product # 602121 Gallons, 4 per case, product # 602041 5 Gallon Pail, product # 602005 55 Gallon Drum, product # 602055 Material Safety Data Sheet April 2006 May be used to comply with OSHA'S Hazard Communication Standard

#### IDENTITY (As used on label and list)

Clean & Green™ Ready-to-Use Super D Degreaser

#### SECTION I

Manufacturer's Name Biosolutions 1811 E. Hayes Suite E Grand Haven, MI 49417

**Emergency Telephone Number** 

616.846.1210 Information Number 616.846.1210

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS Registry # - Proprietary

#### REGULATORY INFORMATION:

United States SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories:

Under the provisions of Title III, Sections 311/312 of Superfund Amendments and Reauthorizations Act (SARA) this product is classified into the hazards listed below:

Fire: No

Pressure Generating: No

Reactivity: No

SARA 313 Reportable Ingredients: This product contains no ingredients

reportable under Section 313.

HMIS RATING: Health: 1

Reactivity: 0

#### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

**Boiling Point** 98.4 C Vapor Pressure (mm Hg.) -<.10 mmHg at 100° F **Physical State** · Liquid Solubility in Water Complete Clear, mild odor Appearance and odor - 7.2 - 7.4 Specific Gravity (H20 = 1) 1.005 **Melting Point -**- N/A Evaporation Rate (Butyl Acetate = 1) -0.8

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) --->210° Menskey Marten CC Flammable Limits --N/A N/A UEL -N/A Special Fire Fighting Procedures

Materials/Coatings Suitable - stainless steel, epoxy resins, polyester

#### SECTION V - REACTIVITY DATA

Stability Stable Compatibility (materials to avoid) Strongly Acidic Materials & Oxidizers Hazardous Polymerization -Conditions To Avoid

#### SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

Routes of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes

#### POTENTIAL HEALTH EFFECTS

Eye: May cause slight (temporary) eye irritation

Skin: Prolonged exposure not likely to cause significant skin irritation Inhalation: Excessive exposure may cause irritation to upper respiratory tract. Ingestion: Single dose oral toxicity is considered to be extremely low

#### **Emergency and First Aid Procedures:**

Eye: flush eyes with plenty of water. Skin: Wash off in flowing water or shower.

Inhalation: Remove to fresh air.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting

unless directed to do so by medical personnel.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. May be slippery.

Waste Disposal Method: Disposal must concur with local, state, and federal

Precautions to be taken in handling and storing: None Other Precautions: Avoid freezing. If freezing occurs, thaw.

#### SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specific Type): None required

Ventilation:

Local Exhaust: Adequate ventilation Mechanical (General) - Acceptable Special - None Other - None

Protective Gloves: Recommended

Eve Protection: Protective evewear recommended. Other Protective Clothing or Equipment: None Work/Hygienic Practices: Normal practices.

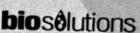
#### DISCLAIMER OF WARRANTY:

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of seller's knowledge. However, seller makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use of thereof. Seller assumes no responsibility for injury to buyer or third party or any damage to property. Buyer assumes all such risks.



Formulated in Partnership with U.S. Environmental Protection Agency.

- **✓** neutral pH
- **✓** nontoxic
- **✓** biodegradable
- **▼** dye free
- ✓ tragrance tree



1811 Hayes Street Suite E Grand Haven, MI 49417 616.846.1210 phone 616.846.1254 fax www.biosolutionslic.com



## **READY-TO-USE WINDOW & GLASS CLEANER**

Conventional cleaning formulations, especially those for industrial and institutional use, often rely on ingredients whose environmental and human health profiles can be improved. Highly alkaline chemistry is corrosive; common solvents can be absorbed through the skin with potential effects on the liver, kidneys, lymph and blood systems and certain terpenes present both human health and environmental concerns, especially for their potential toxicity to aquatic organisms.

Clean & Green- Ready-to-Use Window & Glass Cleaner has been formulated in partnership with the U.S. Environmental Protection Agency to provide a safer more environmentally preferable alternative without sacrificing performance. In addition to windows and glass, this neutral pH cleaner is ideal for polished surfaces such as chrome and stainless steel. Safe on plexiglass too.

#### BENEFITS:

No streaking
No film
No ammonia
No butyl
People SAFE
Environment SAFE

#### RECOMMENDED USES:

Window and glass Mirrors Chrome Stainless steel Table and counter tops

#### PACKAGING OPTIONS:

Quarts, 12 per case, product # 603121 Gallons, 4 per case, product # 603041 5 Gallon Pail, product # 603005 55 Gallon Drum, product # 603055 Material Safety Data Sheet April 2006 May be used to comply with OSHA'S Hazard Communication Standard

#### IDENTITY (As used on label and list)

Clean & Green™ Ready-to-Use Window & Glass Cleaner

#### SECTION I

Manufacturer's Name **Biosolutions** 1811 E. Hayes Suite E Grand Haven, MI 49417

**Emergency Telephone Number** 616.846.1210

Information Number 616.846.1210

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS Registry # - Proprietary

#### REGULATORY INFORMATION:

United States SARA TITLE III (SUPERFUND AMENDMENTS AND **REAUTHORIZATION ACT)** 

311/312 Hazard Categories:

Under the provisions of Title III, Sections 311/312 of Superfund Amendments and Reauthorizations Act (SARA) this product is classified into the hazards listed below:

Fire: No

Pressure Generating: No

Reactivity: No

SARA 313 Reportable Ingredients: This product contains no ingredients

reportable under Section 313.

HMIS RATING: Health: 0

Fire: 0

Reactivity: 0

#### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

**Bolling Point** -98.4 C Vapor Pressure (mm Hg.) <.10 mmHg at 100° F **Physical State** Liquid Solubility in Water Complete Clear, mlld odor Appearance and odor 7.2 - 7.4 Specific Gravity (H20 = 1) 1.005 **Melting Point** N/A Evaporation Rate (Butyl Acetate = 1) -0.8

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) ->210° Menskev Marten CC Flammable Limits -N/A LEL N/A HEI N/A Special Fire Fighting Procedures N/A

Materials/Coatings Suitable - stainless steel, epoxy resins, polyester

#### **SECTION V - REACTIVITY DATA**

Stable Compatibility (materials to avoid) Strongly Acidic Materials & Oxidizers **Hazardous Polymerization** No Conditions To Avoid None

#### SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

Routes of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes

#### POTENTIAL HEALTH EFFECTS

Eye: May cause slight (temporary) eye irritation

Skin: Prolonged exposure not likely to cause significant skin irritation Inhalation: Excessive exposure may cause irritation to upper respiratory tract. Ingestion: Single dose oral toxicity is considered to be extremely low

#### **Emergency and First Aid Procedures:**

Eye: flush eyes with plenty of water. Skin: Wash off in flowing water or shower.

Inhalation: Remove to fresh air.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting

unless directed to do so by medical personnel.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. May be slippery.

Waste Disposal Method: Disposal must concur with local, state, and federal regulations.

Precautions to be taken in handling and storing: None Other Precautions: Avoid freezing. If freezing occurs, thaw.

#### **SECTION VIII - CONTROL MEASURES**

Respiratory Protection (Specific Type): None required

Ventilation:

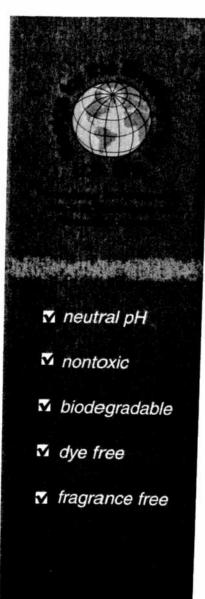
Local Exhaust: Adequate ventilation Mechanical (General) - Acceptable Special - None Other - None

Protective Gloves: Recommended

Eye Protection: Protective eyewear recommended. Other Protective Clothing or Equipment: None Work/Hygienic Practices: Normal practices.

#### DISCLAIMER OF WARRANTY:

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of seller's knowledge. However, seller makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use of thereof. Seller assumes no responsibility for injury to buyer or third party or any damage to property. Buyer assumes all such risks.





Conventional cleaning formulations, especially those for industrial and institutional use, often rely on ingredients whose environmental and human health profiles can be improved. Highly alkaline chemistry is corrosive; common solvents can be

absorbed through the skin with potential effects on the liver, kidneys, lymph and blood systems and certain terpenes present both human health and environmental concerns, especially for their potential toxicity to aquatic organisms.

Clean & Green- Granite Cleaner has been formulated in partnership with the U.S. Environmental Protection Agency to provide a safer more environmentally preferable alternative without sacrificing performance. In addition to granite slabs, this neutral pH cleaner is ideal for polishing composite material, glass top stoves and also plexiglass.

#### BENEFITS:

No streaking
No film
No ammonia
No butyl
No peroxide
Biodegradable
People SAFE
Environment SAFE
Non-corrosive to hardware, plastic, rubber

#### RECOMMENDED USES:

Granite slabs Composite material surfaces Glass top cooking surfaces

#### DIRECTIONS:

Twist sprayer top to open. Lightly spray area to be cleaned 8 to 12 inches from surface. Wipe cleaner with clean paper towel or a microfiber cloth.

#### PACKAGING OPTIONS:

Quarts (32 oz.), 12 per case

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1811 Hayes Street Suite E Grand Haven, MI 49417 616.846.1210 phone 616.846.1254 fax www.biosolutionsllc.com Material Safety Data Sheet September 2006
May be used to comply with OSHA'S Hazard Communication Standard

#### IDENTITY (As used on label and list)

Clean & Green™ Granite Cleaner

#### SECTION I

Manufacturer's Name Biosolutions

1811 E. Hayes Suite E Grand Haven, MI 49417 Emergency Telephone Number 616.846.1210

Information Number 616.846.1210

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS Registry # - Proprietary

#### REGULATORY INFORMATION:

United States SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories:

Under the provisions of Title III, Sections 311/312 of Superfund Amendments and Reauthorizations Act (SARA) this product is classified into the hazards listed below:

Fire: No

Pressure Generating: No

Reactivity: No

SARA 313 Reportable Ingredients: This product contains no ingredients

reportable under Section 313.

HMIS RATING: Health: 1

Fire: 0

Reactivity: 0

#### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	98.4 C
Vapor Pressure (mm Hg.)	
Physical State	
Solubility in Water	
Appearance and odor	
pH	
Specific Gravity (H20 = 1)	1.005
Melting Point —	N/A
Evaporation Rate (Butyl Acetate = 1)	

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	>210° Menskey Marten CC
Flammable Limits	N/A
LEL	N/A
UEL	N/A
Special Fire Fighting Procedures	N/A

Materials/Coatings Suitable - stainless steel, epoxy resins, polyester

#### **SECTION V - REACTIVITY DATA**

Stability ————————————————————————————————————	
Hazardous Polymerization	
Conditions To Avoid	None

#### SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

Routes of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes

#### **POTENTIAL HEALTH EFFECTS**

Eye: May cause slight (temporary) eye irritation

Skin: Prolonged exposure not likely to cause significant skin irritation Inhalation: Excessive exposure may cause irritation to upper respiratory tract.

Ingestion: Single dose oral toxicity is considered to be extremely low

#### **Emergency and First Aid Procedures:**

Eye: flush eyes with plenty of water. Skin: Wash off in flowing water or shower.

inhalation: Remove to fresh air.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting

unless directed to do so by medical personnel.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. May be slippery.

Waste Disposal Method: Disposal must concur with local, state, and federal

regulations.

Precautions to be taken in handling and storing: None Other Precautions: Avoid freezing. If freezing occurs, thaw.

#### SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specific Type): None required

Ventilation:

Local Exhaust: Adequate ventilation Mechanical (General) - Acceptable Special - None Other - None

Protective Gloves: Recommended

Eye Protection: Protective eyewear recommended.
Other Protective Clothing or Equipment: None
Work/Hyglenic Practices: Normal practices.

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Formulated in Partnership with U.S. Environmental Protection Agency.



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## **TILE & GROUT CLEANER**

Conventional cleaning formulations, especially those for industrial and institutional use, often rely on ingredients whose environmental and human health profiles can be improved. Highly alkaline chemistry is corrosive; common solvents can be absorbed through the skin with potential effects on the liver, kidneys, lymph and blood systems and certain terpenes present both human health and environmental concerns, especially for their potential toxicity to aquatic organisms.

Clean

Tile & Grout Cleaner has been formulated in partnership with the U.S. Environmental Protection Agency to provide a safer more environmentally preferable alternative without sacrificing performance. This neutral pH floor cleaner is safe to use on any tile, grout or fiberglass surface.

No ammonia
No butyl
No peroxide
Excellent cleaning power
Easily used
Biodegradable
People SAFE
Environment SAFE
Non-corrosive to hardware, plastic, rubber

Twist sprayer top open. Spray 6–8 inches from surface. Allow product to penetrate soil & soap scum. For tough soils; let liquid stand several minutes, gently scrub with soft brush, wipe clean with sponge, cloth or rinse with water.

Quarts (32 oz.), 12 per case

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Material Safety Data Sheet April 2006 May be used to comply with OSHA'S Hazard Communication Standard

#### IDENTITY (As used on label and list)

Clean & Green™ Tile & Grout Cleaner

#### SECTION I

Manufacturer's Name **Biosolutions** 1811 E. Hayes Suite E Grand Haven, MI 49417

**Emergency Telephone Number** 616.846.1210

Information Number 616.846.1210

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS Registry # - Proprietary

#### REGULATORY INFORMATION:

United States SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories:

Under the provisions of Title III, Sections 311/312 of Superfund Amendments and Reauthorizations Act (SARA) this product is classified into the hazards listed below:

Fire: No

Pressure Generating: No

Reactivity: No

SARA 313 Reportable Ingredients: This product contains no ingredients reportable under Section 313.

HMIS RATING: Health: 1

Fire: 0

Reactivity: 0

#### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	98.4 C
Vapor Pressure (mm Hg.)	<.10 mmHg at 100° F
Physical State-	Liquid
Solubility in Water	Complete
Appearance and odor	Clear, mild odor
pH	<del> 7.2 - 7.4</del>
Specific Gravity (H20 = 1)	1.005
Meiting Point	N/A
Evaporation Rate (Butyl Acetate = 1)	

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	>210° Menskey Marten CC
Flammable Limits	·N/A
LEL	N/A
UEL	N/A
Special Fire Fighting Procedures	N/A

Materials/Coatings Sultable - stainless steel, epoxy resins, polyester

#### SECTION V - REACTIVITY DATA

Stability ————————————————————————————————————	
Hazardous Polymerization	No
Conditions To Avoid	None

#### SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

Routes of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes

#### **POTENTIAL HEALTH EFFECTS**

Eye: May cause slight (temporary) eye irritation

Skin: Prolonged exposure not likely to cause significant skin irritation inhalation: Excessive exposure may cause irritation to upper respiratory tract. Ingestion: Single dose oral toxicity is considered to be extremely low

#### **Emergency and First Aid Procedures:**

Eve: flush eves with plenty of water. Skin: Wash off in flowing water or shower.

Inhalation: Remove to fresh air.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting

unless directed to do so by medical personnel.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. May be slippery.

Waste Disposal Method: Disposal must concur with local, state, and federal regulations.

Precautions to be taken in handling and storing: None Other Precautions: Avoid freezing. If freezing occurs, thaw.

#### **SECTION VIII - CONTROL MEASURES**

Respiratory Protection (Specific Type): None required

Ventilation:

Local Exhaust: Adequate ventilation Mechanical (General) - Acceptable Special - None Other - None

Protective Gloves: Recommended

Eye Protection: Protective eyewear recommended. Other Protective Clothing or Equipment: None Work/Hyglenic Practices: Normal practices.

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